

(A)

**Figure A1.8:** Outcrop photos of measured sections from Shawnee Rock Company's Bonner Springs quarry. Measuring staff in each photo is 1.5 meters for scale.

(A) Upper portion of the lower Farley in addition to the middle and upper Farley members. The middle Farley here is dominated by a thick bed of limestone, and not the normal shale as in other localities. Locations from which aggregate samples KU 4 & 5 as well as KDOT 5 & 6 were taken are marked.



(B)

(B) Island Creek Shale interval and the majority of the lower Farley limestone. The lower Farley here includes a thick section of interbedded limestone and siltstones.

Rock Unit(s): Lower Farley

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
9cm		#							
44cm		~#	• •	Phylloid-Algal Wackestone	Spon. replace phyls. + fossils ~ fine shaly (~15%)				Shale clay cemented in pockets + seams throughout. (~50% contains clay)
18cm		2#	•	Phylloid-Algal Wackestone	Spon. replace phyls. + fossils fine interbedded shaly part (~30-40%) (~15-20%)		BS-12		Shale seams @ bedding planes diffuse up + down into ls. (~5-10%)  Most phylloids very fragmental  Fewer phyls + more large brachs near the top
20cm									
30cm									
27cm		~#	• (ES)	Phylloid-Algal Wackestone	Spon. replace phyls. + fossils (~10%)	Greenish Gray			Some diffuse clay seams @ top of phyls + in wacke (~10%)  Distinct upward lithology change
10cm		①		Oolite	No coarse spon visible in oolite	Medium-dark gray	BS-11		Gradually darkens (6% of lower has clay)
66cm		#		Fossiliferous shale					Dandel Creek shale



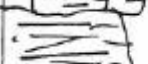


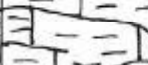


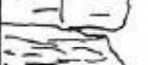
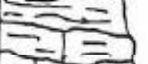
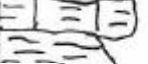
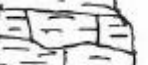
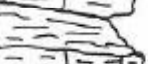
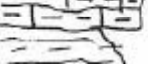

Date 6/24/97

Location Shawnee Rock #2 Quarry, 16.5

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1:100m

Rock Unit(s): Lower Farley

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
7cm		no #	○	Alternating argillaceous phylloid algal w/ siltstone Fossiliferous siltstone	Spar content varies w/ amount fossil material Replaces parts in fossils with siltstone (25-30%)	LS are bluish gray			LS are all highly argillaceous & "shaly"  All have clay through with their thickness  Too diffuse to form any seams or pockets  Over 50% in all
7cm		no #	○						
4cm		no #	○						
2cm		no #	○						
1cm		no #	○					BS-7	
1cm		no #	○					BS-16	
1cm		no #	○					BS-15	
1cm		no #	○					BS-14	
1cm		no #	○						
1cm		no #	○						
12cm		no #	○						
12cm		no #	○						
12cm		no #	○						
12cm		no #	○						
12cm		no #	○	Fossiliferous Siltstone			BS-18		Comb. ranges!

Rock Unit(s): Fairley LS

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct. & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
40cm				Skeletal Wackestone (Mudstone?)	Very finely recryst. Microspar + mudstone (spar = 5%)				Very blocky nature. Abundant vert. fractures clean of clay content Mostly mudstone
18cm				Siltstone Peloidal, skeletal Packstone	Spar content is mostly recryst. (~15%)		BS-4		Mud content ground the oxide below No clay No clay present Large fenestrate porosity in some places Small ooid size.
5cm				Oolitic Peloidal Packstone	Highly recryst. w/very fine spar. Coar. spar not visible (~25%) All spar much less than 5mm		BS-3		Very little micrite present.
23cm				Peloidal, skeletal Packstone	Sil. has been mostly recryst. Finespar (sil. mud) (~15%)		BS-2		Sil. debris concentrated in pockets Shale same @ base of bed (~10%) Alternating silty/LS succession
10cm				Foss. Siltstone					
10cm				Phyllocl. Algal Wackestone	Spar replaces phyllocl. + algal (~10-15%)				
6cm				Foss. Siltstone					
8cm				Phyllocl. Algal Wackestone	As above (~10-15%)		BS-1		LS beds are argillaceous throughout + some have shale same at their
3cm				Foss. Siltstone					
3cm				Phyllocl. Algal Wackestone	As above (~10-15%)				
3cm				Foss. Siltstone					

Date 6/23/97

Location Shawnee Rock #2, Banner Springs, KS

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Rock Unit(s): Faces 2 & 3

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
15m+									Shale partings between bedding planes
24m		~ @ # @ AS.		Phyl. Algal Wackestone	Med-coarse sp. found around phyl. beds in shallow pore fills & replace fossils - (3mm)				Side diffused up & down from bedding planes. Mostly concentrated thin frame (~5-10%)
24m		~ @ # @ D.B.		Phyl. Algal Wackestone	(~25-30% shale) Sp. also found in bacterifera.		BS-20		Ab. autochthon (compacted) bacterifera Only about 10% of sp. is in large shallow pore or bacterifera. Most is in thin fractures & phylloid algal
26m		~ @ # @ A.B.		Phyl. Algal Wackestone					
53m		~ @ # @		Phylloid-Algal Wackestone	Sp. coarse around band th. base (63mm) Coarse grain fill breccia (~20%)		BS-7		Transitional Marker Bed Ab. large whole breccia
11				Oolite, Brn Wackestone			BS-6		Clay only diff. in bedding planes (5/10%)
48m+				siltstone			BS-5		Blocky texture; laterally pervasive
					Small amount of very fine sp. (5-6%)		BS-4		

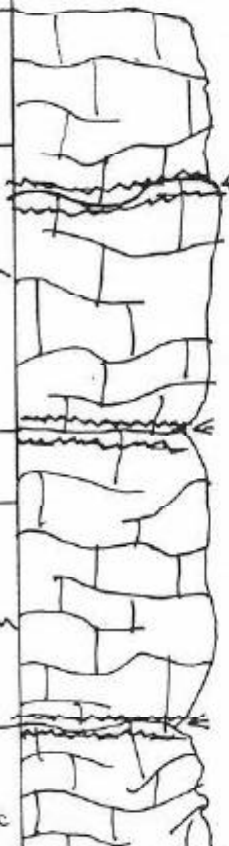
Date \_\_\_\_\_

Location unit 2, Brown Springs

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Rock Unit(s): \_\_\_\_\_

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
57cm		2 #	AB A V	Phy. Algal Wackestone	Some fine grain (smaller) fractures (~10%)				Sk. debris in products.  Chg. about bedding planes. ( $\leq \sim 5\%$ ) in consolidated seams.
46cm		2 #	AB A	Phy. Algal Wackestone	Spec. fills fossils & fractures ( $\leq 2\%$ ) (~15-20%)				Sk. debris in fractures fills
19cm		2 #	AB	Phy. Algal Wackestone	as above				as below

Date \_\_\_\_\_

Location Shawmut Rock #2, Banner ge. site

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**Locality SRO:** Quarry section. Measured in an active quarry operated by Shawnee Rock Company. Quarry is located in Olathe west of Lone Elm Road on 151st Street. Section measured was located on the south wall of the quarry. Measured section includes only the Farley Limestone but the Argentine Limestone and the Bonner Springs Shale were both briefly examined here also. The Lane-Island Creek Shale is missing at this locality. Aggregate samples KU-3 and KDOT-3, 4 and 12 are from this quarry.

